

CLEAN VERSION OF THE AMENDED CLAIMS:

29. (new) The method of contactless measurement according to claim 25 wherein the third parallel light beams are focused onto the second light incidence position resolving sensor (26) with a fourth optical focusing system (25); wherein the fourth parallel light beams are focused onto the first light incidence position resolving sensor (16) with a third optical focusing system (15); wherein the first optical beam splitter is a first semi-permeable mirror (13); wherein the second optical beam splitter is a second semi-permeable mirror (23); and further comprising the steps of:

aligning the first optical focusing and in reverse collimating system (14), the third optical focusing system (15), and the first light incidence position resolving sensor (16) along a first optical axis and wherein the transparent object (1) is disposed in the path of the first optical axis;

aligning the first semi-permeable mirror (13) to be disposed at an angle of 45 degrees relative to a propagating direction of the first parallel light beams and to be disposed at an angle of 45 degrees relative to the first optical axis;

aligning the second optical focusing and in reverse collimating system (24), the fourth optical focusing system (25), and the second light incidence position resolving sensor (26) along a second optical axis and wherein the transparent object (1) is disposed in the path of the second optical axis;

aligning the second semi-permeable mirror (23) to be disposed at an angle of 45 degrees relative to a propagating direction of the second parallel light beams and to be disposed at an angle of 45 degrees relative to the first optical axis; and

aligning the first optical axis and the second optical axis to intersect in an area of the object (1) to be measured.

30. (new) The device of contactless measurement according to claim 27 wherein the first optical beam splitter is a first semi-permeable mirror (13); wherein the second optical beam splitter is a second semi-permeable mirror (23);

wherein the first optical focusing and in reverse collimating system (14), the third optical focusing system (15), and the first light incidence position resolving sensor (16) are aligned along a first optical axis and wherein the transparent object (1) is disposed in the path of the first optical axis;

wherein the first semi-permeable mirror (13) is aligned to be disposed at an angle of 45 degrees relative to a propagating direction of the first parallel light beams and to be disposed at an angle of 45 degrees relative to the first optical axis;

wherein the second optical focusing and in reverse collimating system (24), the fourth optical focusing system (25), and the second light incidence position resolving sensor (26) are aligned along a second optical axis and wherein the transparent object (1) is disposed in the path of the second optical axis;

wherein the second semi-permeable mirror (23) is aligned to be disposed at an angle of 45 degrees relative to a propagating direction of the second parallel light beams and to be disposed at an angle of 45 degrees relative to the first optical axis; and

wherein the first optical axis and the second optical axis are aligned to intersect in an area of the object (1) to be measured.

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